

ABSTRACT OF THE DISCLOSURE

[0042]

An apparatus for absorbing the mounting and clamping forces of a linkage assembly of a power clamp. An enclosed bilateral housing of a power clamp is provided, wherein a linear actuator is connected to the housing and provides a piston rod extending into the housing. A linkage assembly is connected to the piston rod and disposed within the housing for converting the linear motion of the piston rod into rotary motion of a clamp arm. A high strength plate and beam structure is disposed within the housing and connected to the linkage assembly for absorbing the mounting and clamping forces generated by the linkage assembly. By absorbing the mounting and clamping forces of the linkage assembly, the high strength plate and beam structure allows the housing to be fabricated from a lightweight, inexpensive material.

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